



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
Carlsbad Fish and Wildlife Office
2730 Loker Avenue West
Carlsbad, California 92008



April 6, 2000

Dear Holder of Quino Recovery Permit:

The year 2000 quino checkerspot butterfly (*Euphydryas editha quino*, quino) flight season for protocol surveys will begin on April 6, 2000, in the eastern portions of survey areas 1, 2, and 3 in Riverside and San Diego counties (see enclosed map). This determination is based on quino observations, condition of larval host plants, and predicted weather. Because quino butterflies are now flying in the eastern portions of survey areas 1 and 3, protocol surveys may begin immediately. Recognizing that lead time may be needed for surveys to be mobilized, the five consecutive weekly surveys can be completed between April 6 and May 18, 2000 for the eastern portions of survey areas 1, 2, and 3.

Please refer to our *Year 2000 Quino Survey Areas Map* to determine where quino protocol surveys (site assessments and possibly adult surveys) are recommended. This map, the full text of the quino survey protocol, detailed written descriptions of the survey areas, and a map showing the areas which are open for protocol surveys are available on our quino web page (www.r1.fws.gov/text/quino.html). Please note that a recovery permit under section 10(a)(1)(A) of the Endangered Species Act of 1973, as amended, is required to conduct surveys for the federally endangered quino.

For further information, please e-mail your questions about the quino survey protocol or season opening to fw1quino@fws.gov.

Sincerely,

Ken S. Berg
Field Supervisor

Enclosure